



FIG. 1A

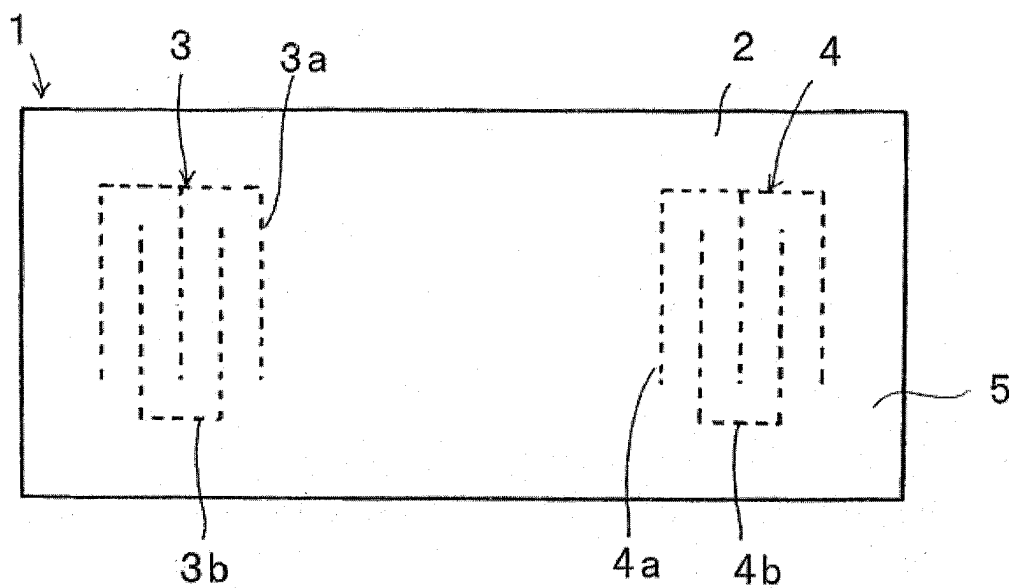


FIG. 1B

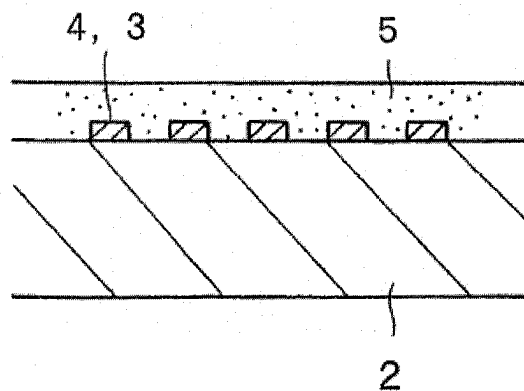


FIG. 2

Electromechanical coupling coefficient  $K^2$  of Rayleigh wave when ZnO thin film with Euler angles  $(0^\circ, 0^\circ, 0^\circ)$  is formed on quartz substrate with Euler angles  $(0^\circ, 119.75^\circ, 35^\circ)$

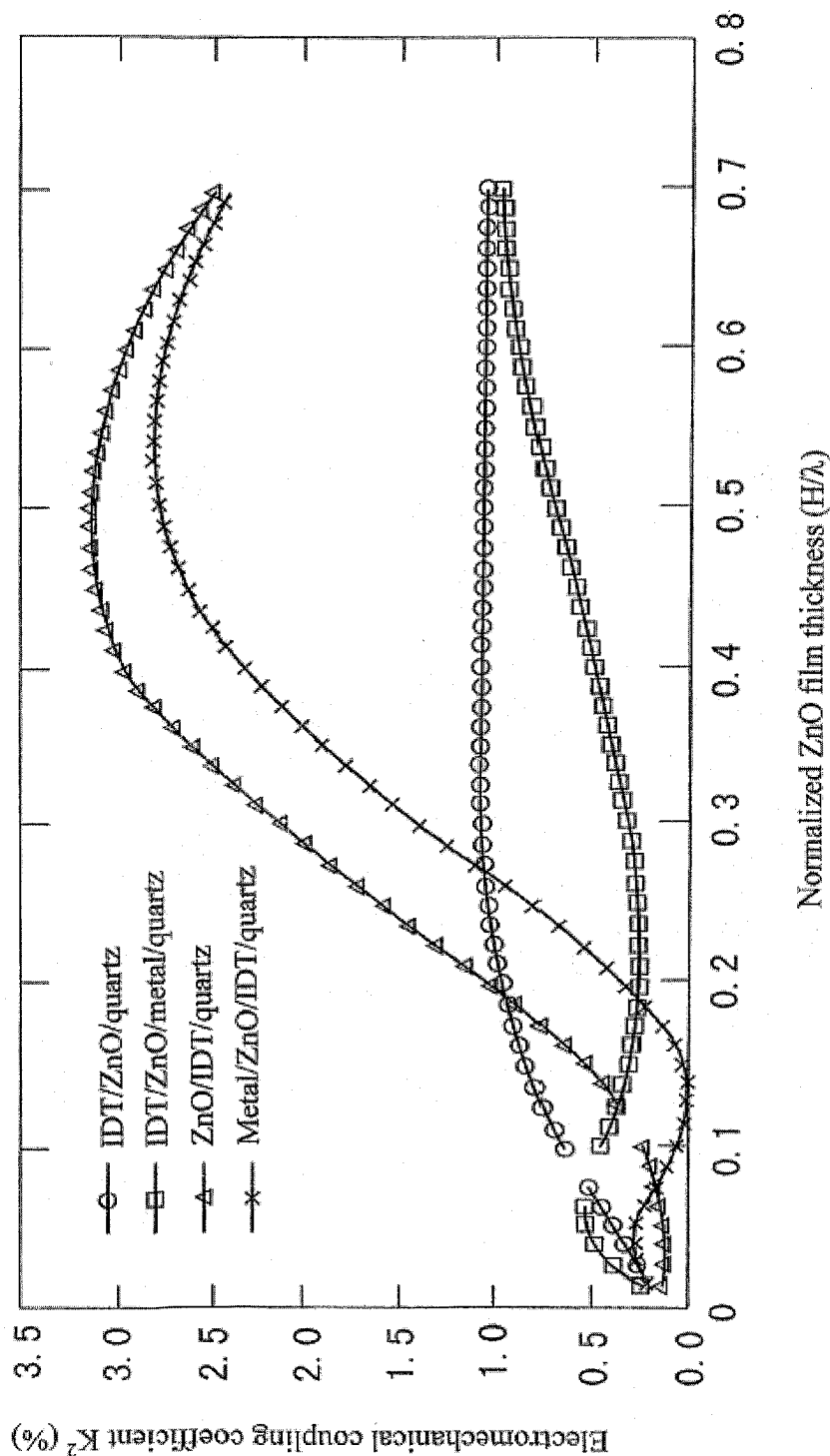


FIG. 3

Electromechanical coupling coefficient  $K^2$  of Rayleigh wave when ZnO thin film with Euler angles  $(0^\circ, 180^\circ, 0^\circ)$  is formed on quartz substrate with Euler angles  $(0^\circ, 119.75^\circ, 35^\circ)$

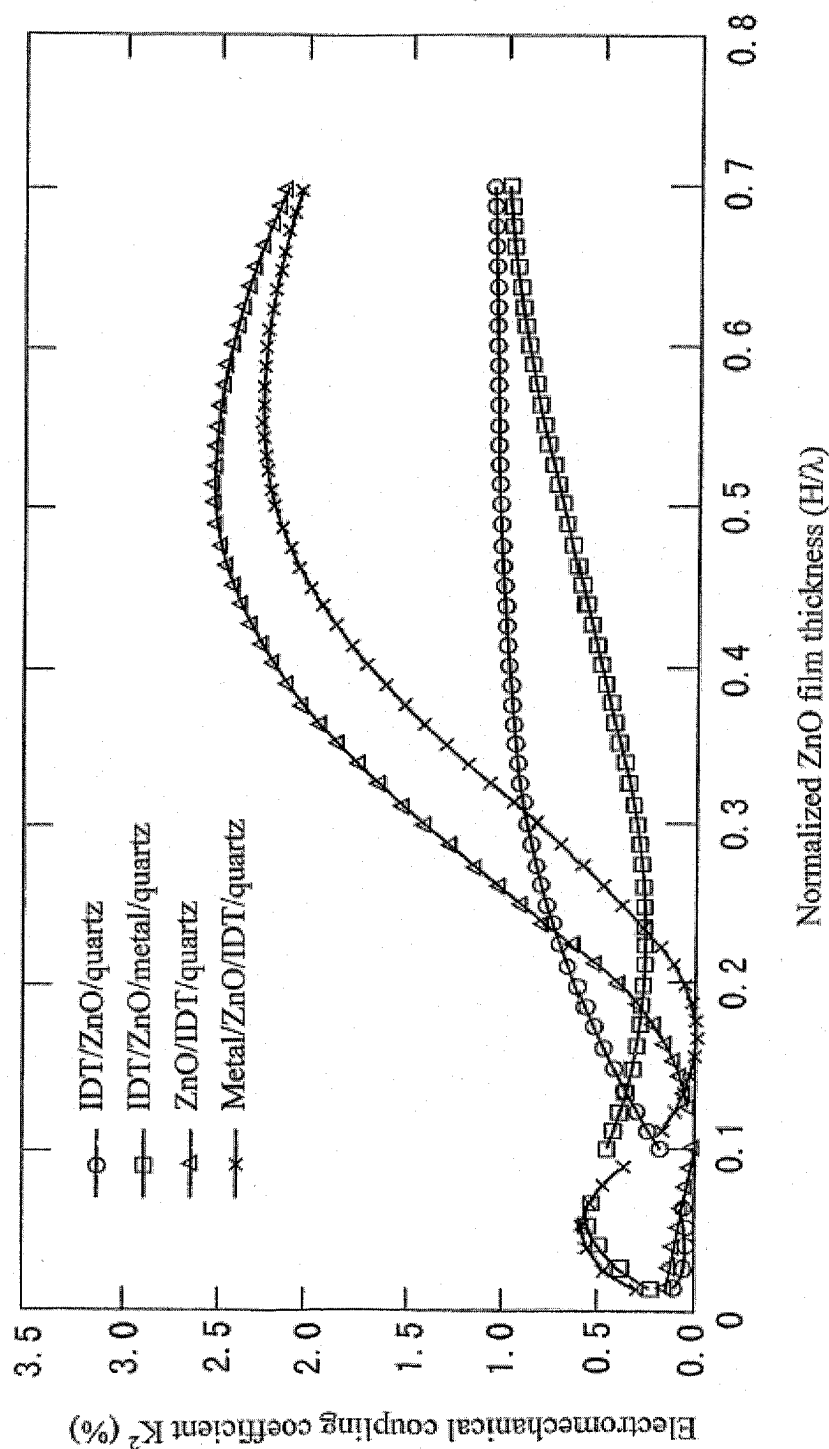


FIG. 4

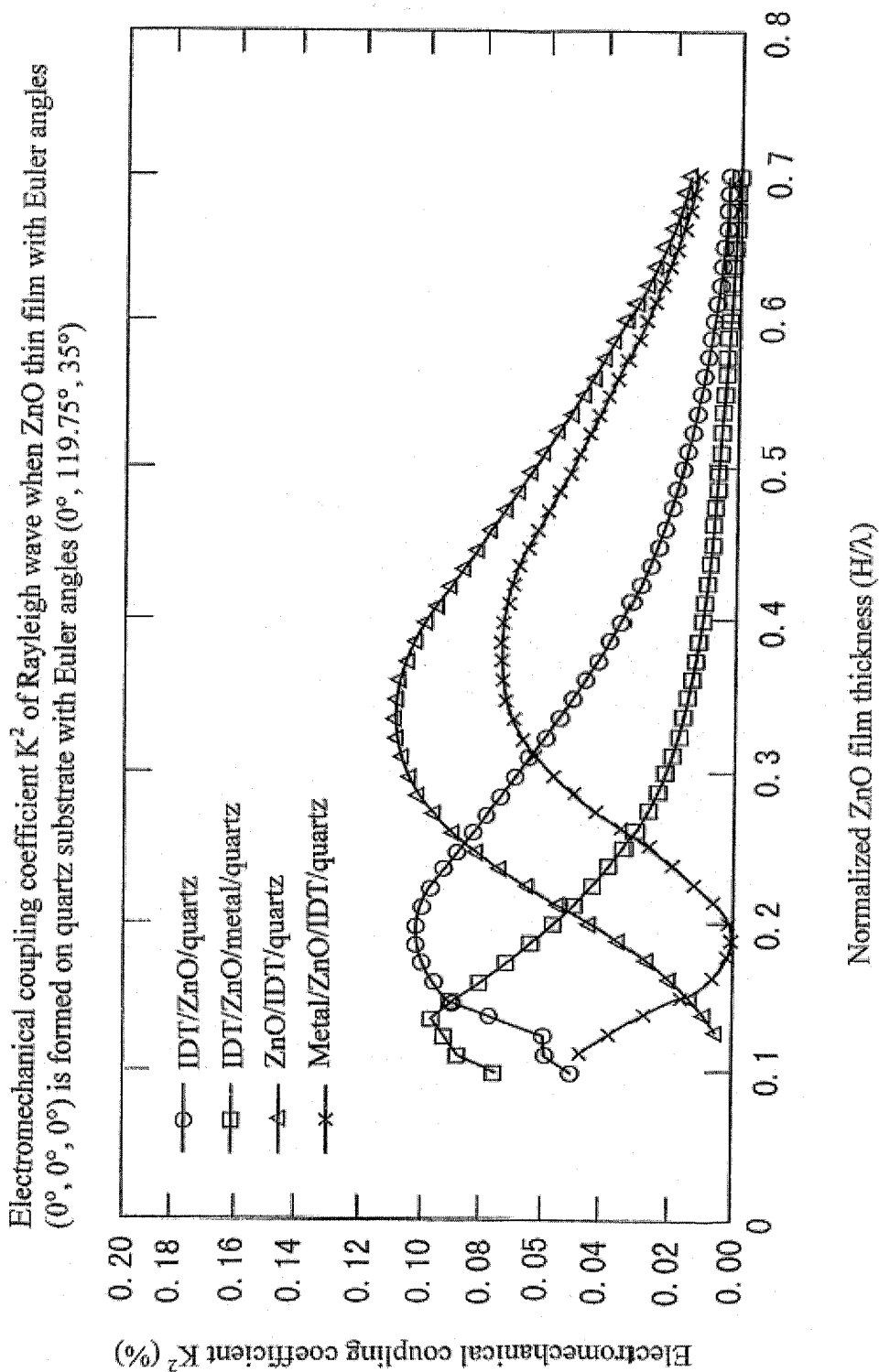


FIG. 5

Electromechanical coupling coefficient  $K^2$  of Rayleigh wave when ZnO thin film with Euler angles  $(0^\circ, 180^\circ, 0^\circ)$  is formed on quartz substrate with Euler angles  $(0^\circ, 119.75^\circ, 35^\circ)$

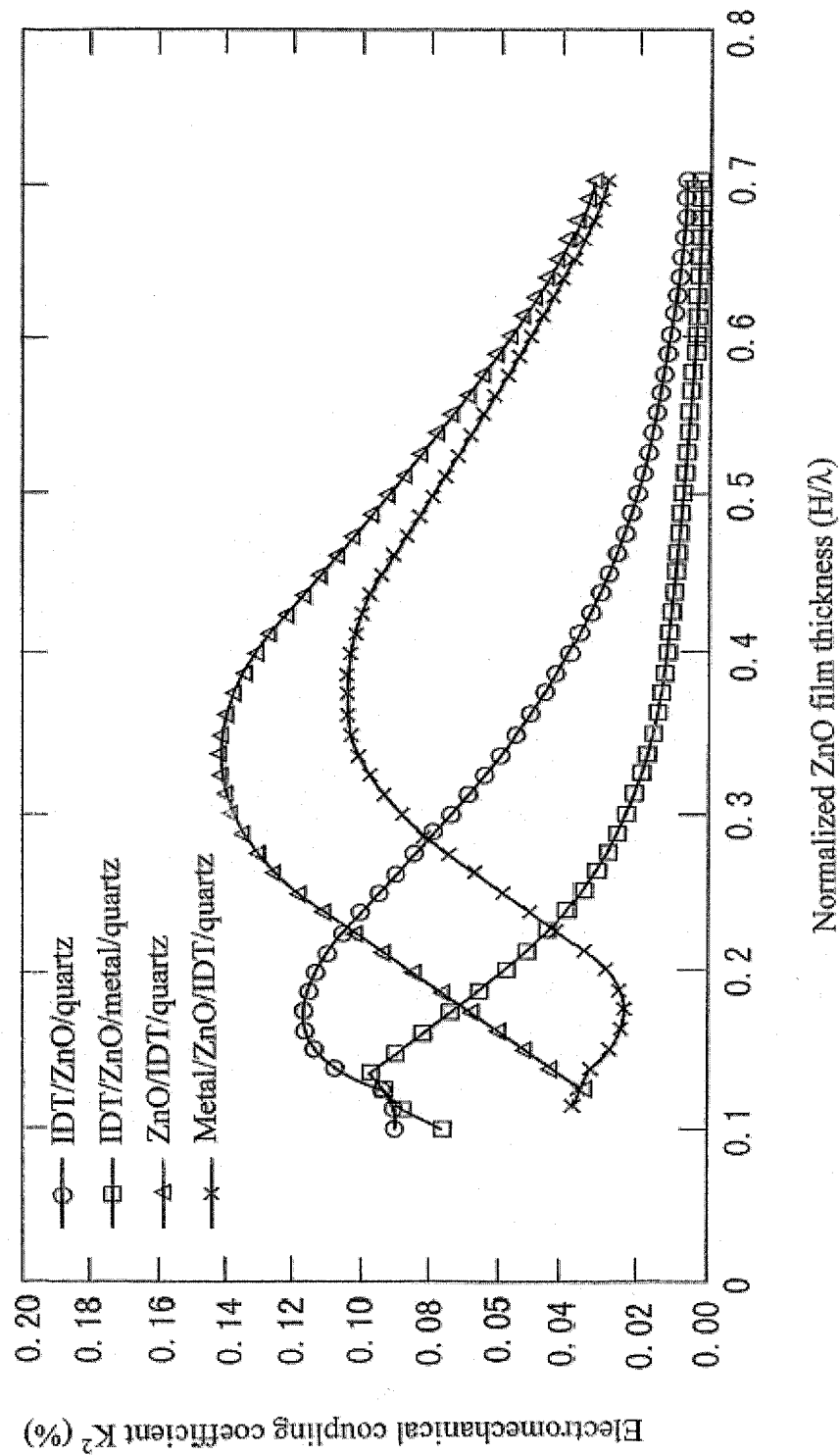


FIG. 6

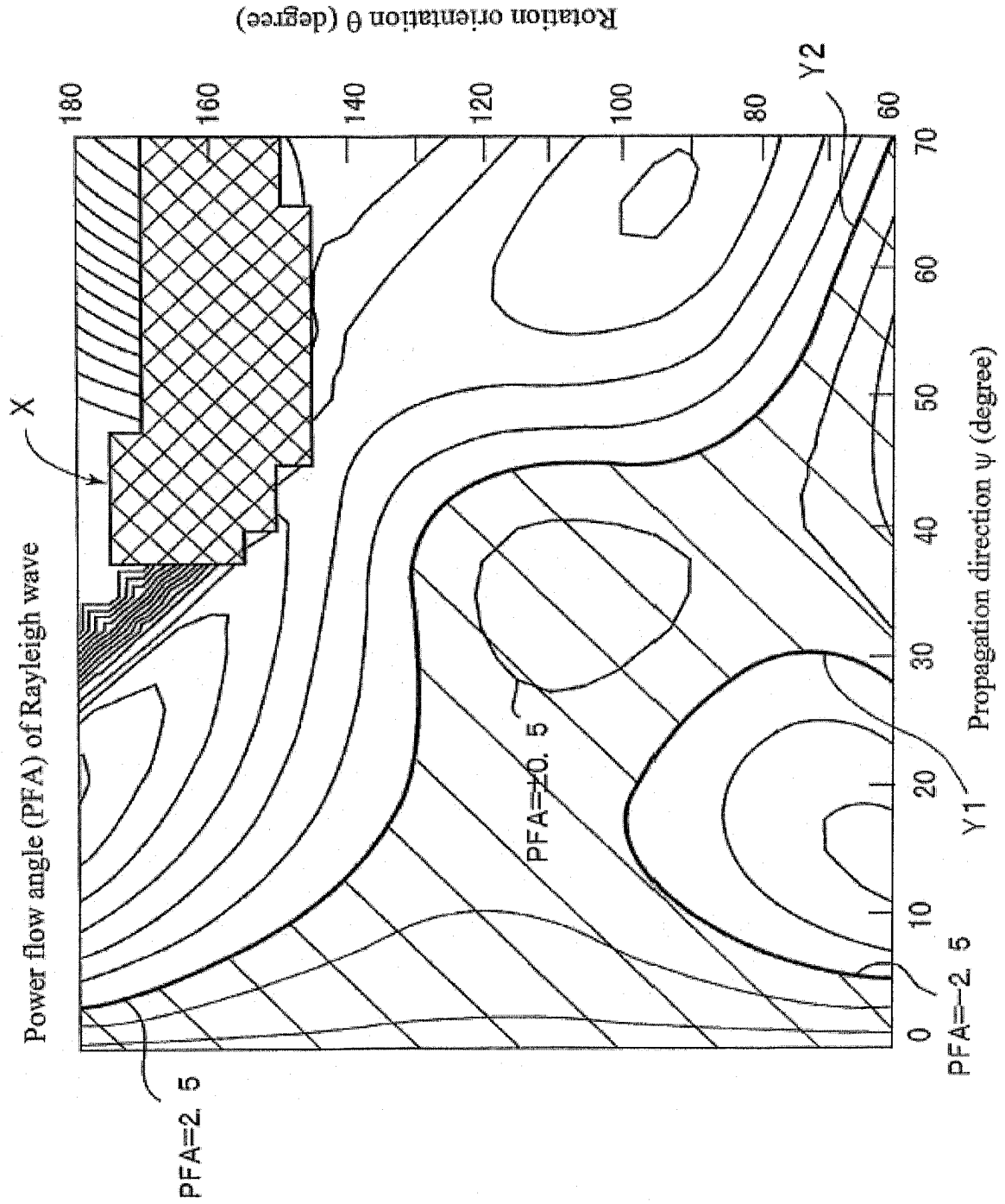


FIG. 7

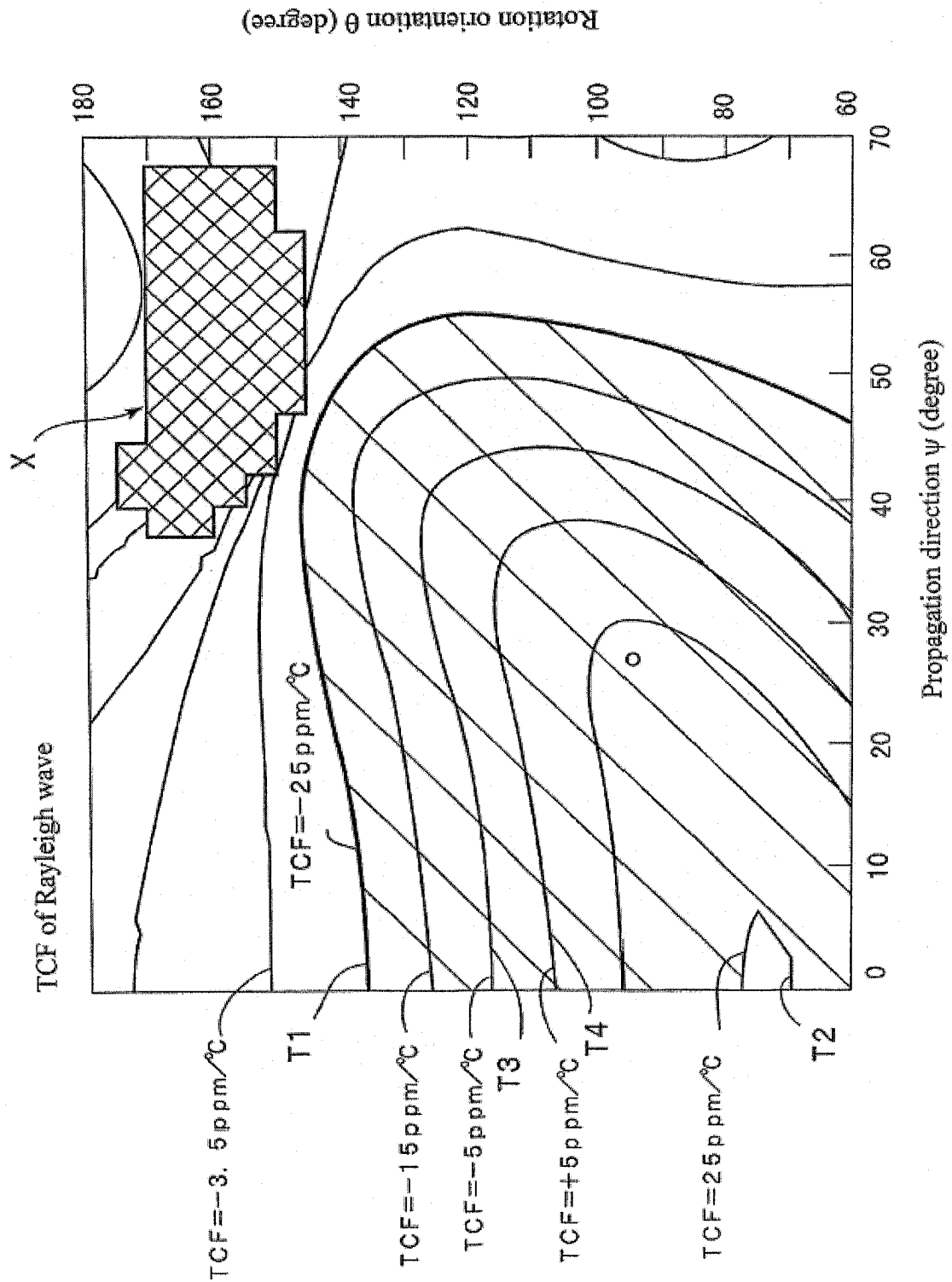


FIG. 8

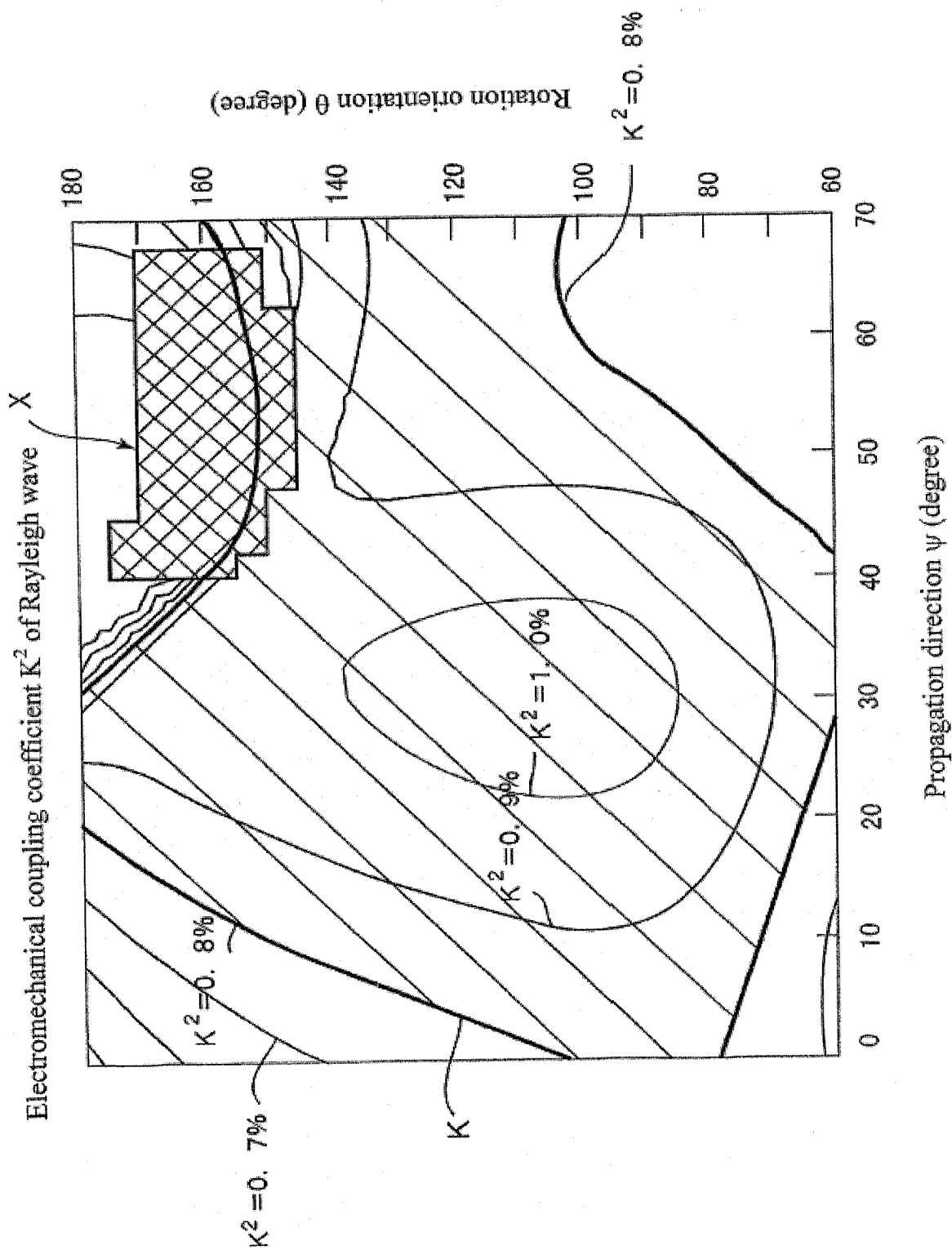




FIG. 9

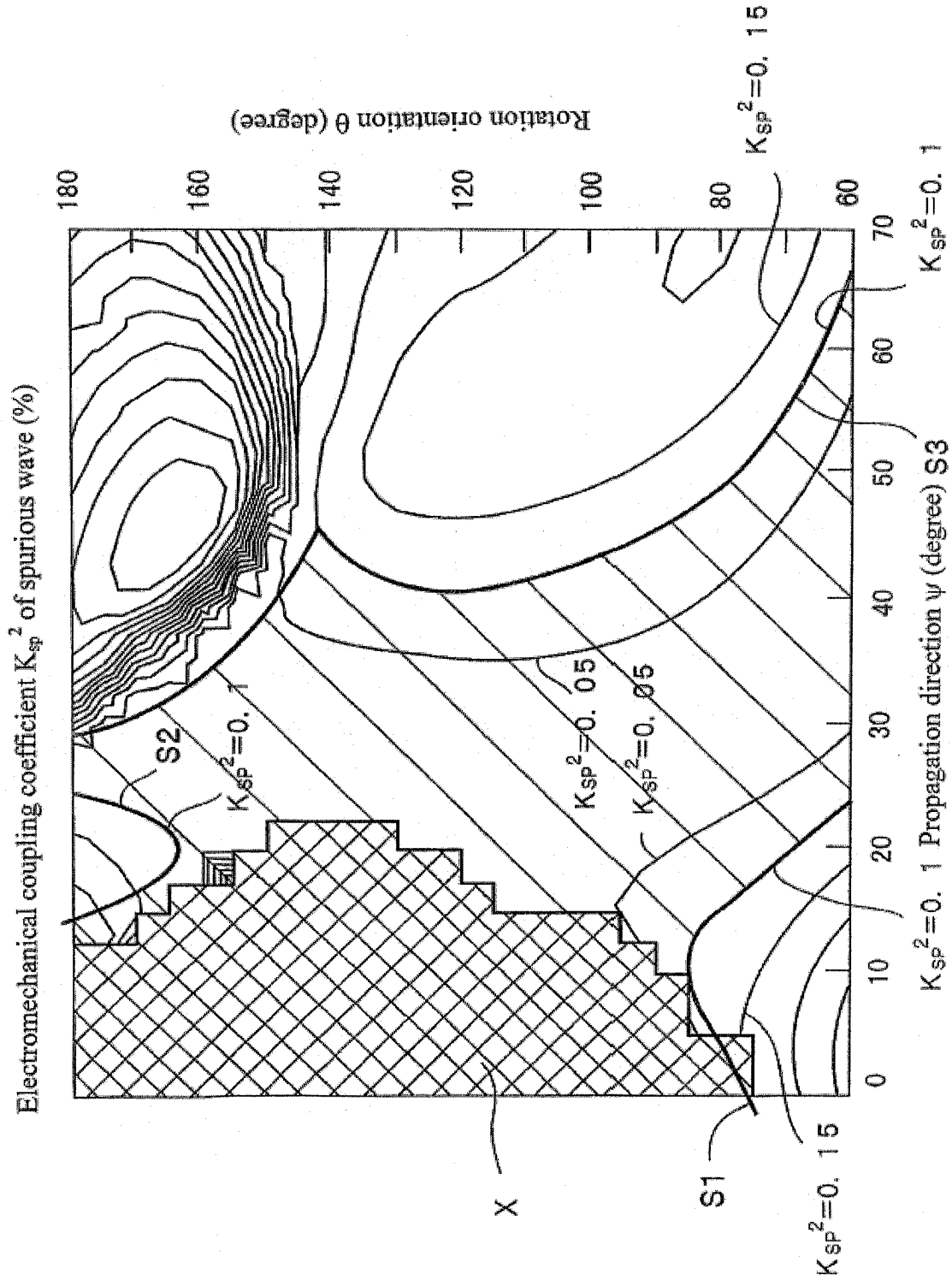




FIG. 10

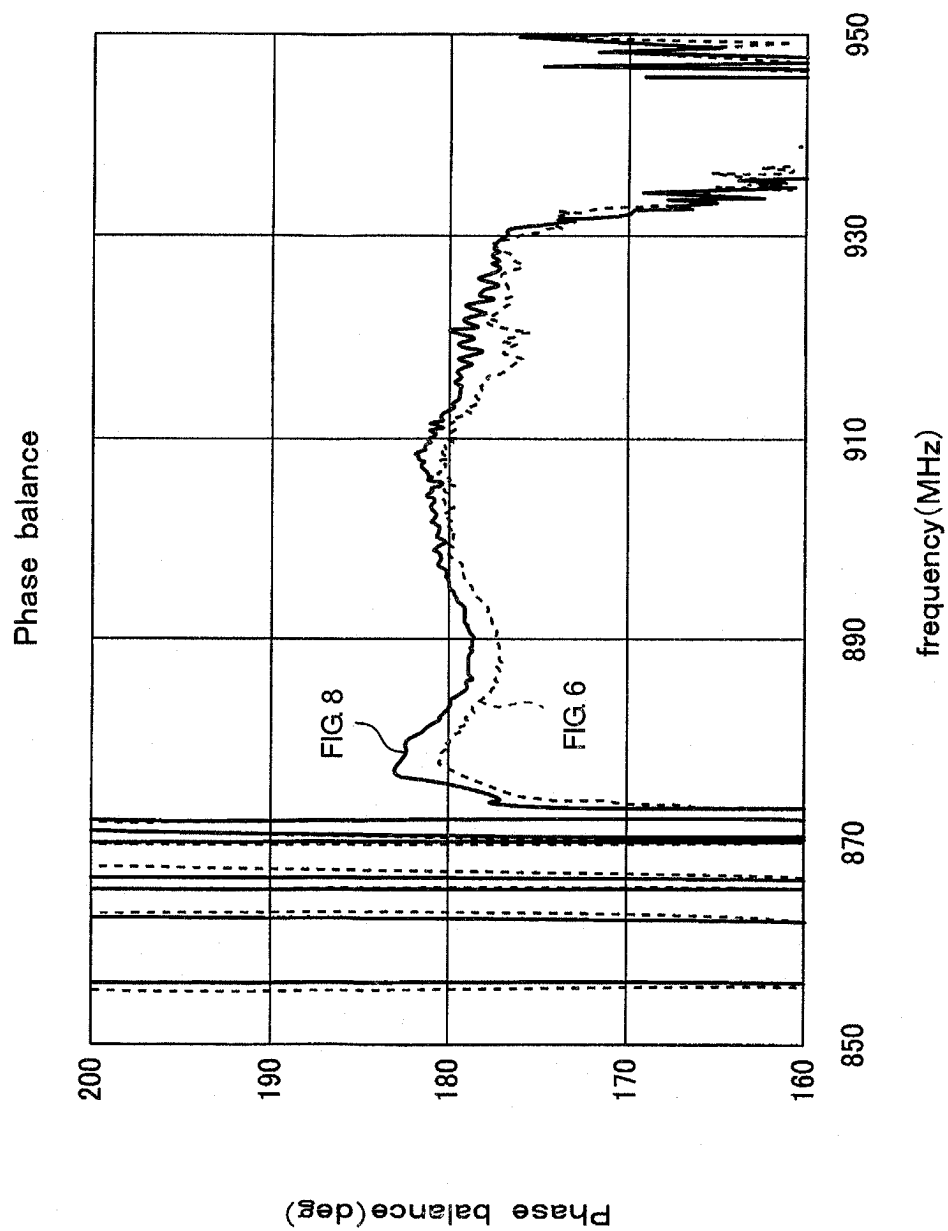




FIG. 11

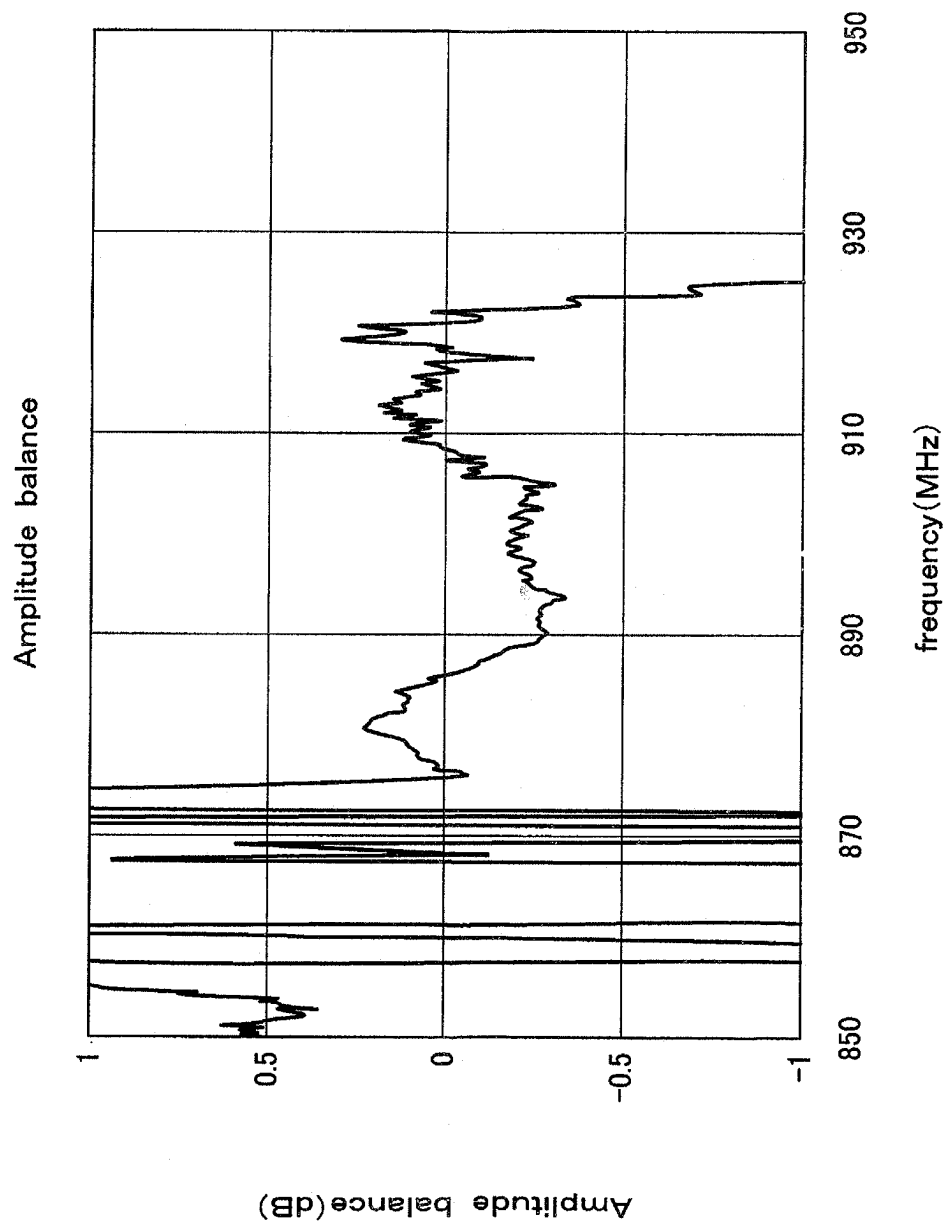




FIG. 12

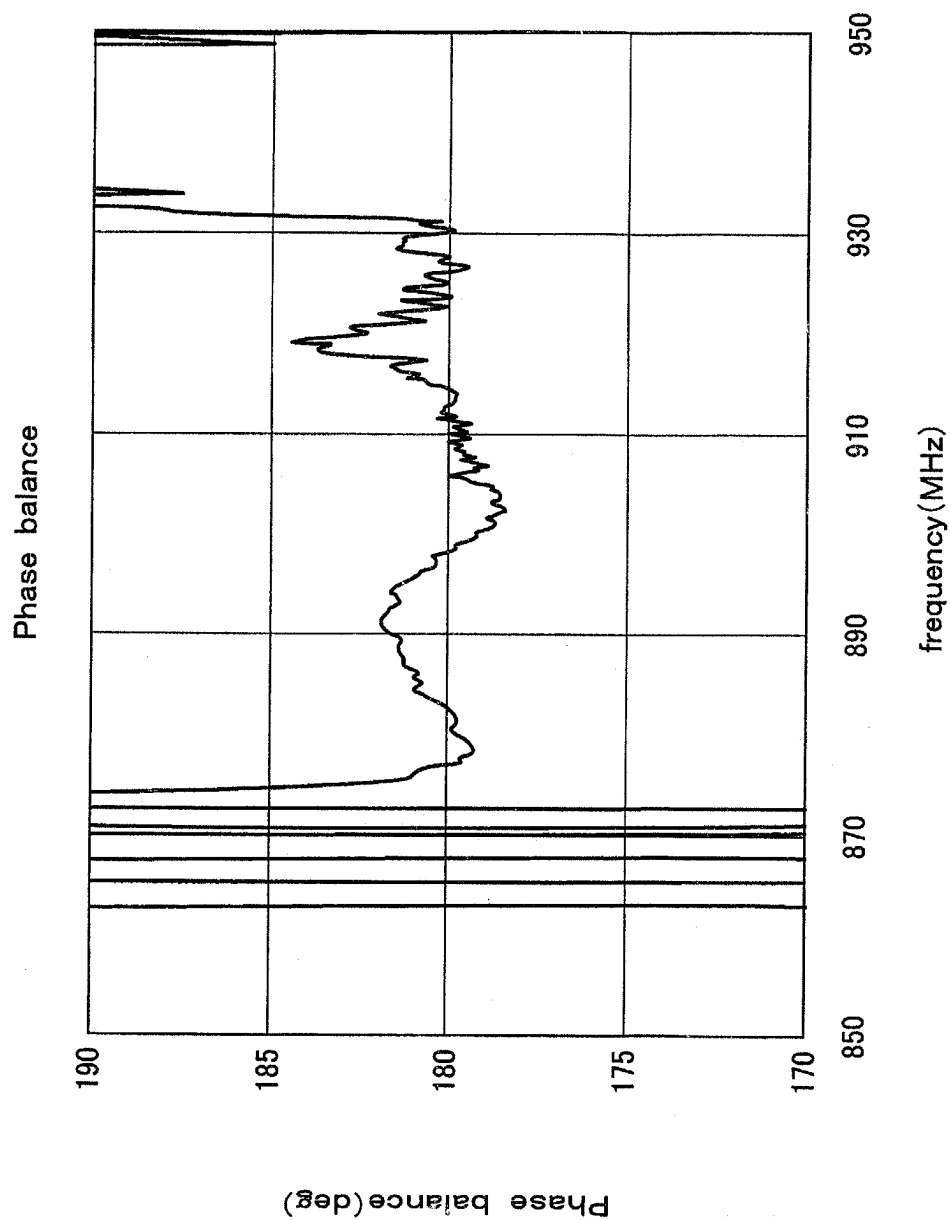


FIG. 13

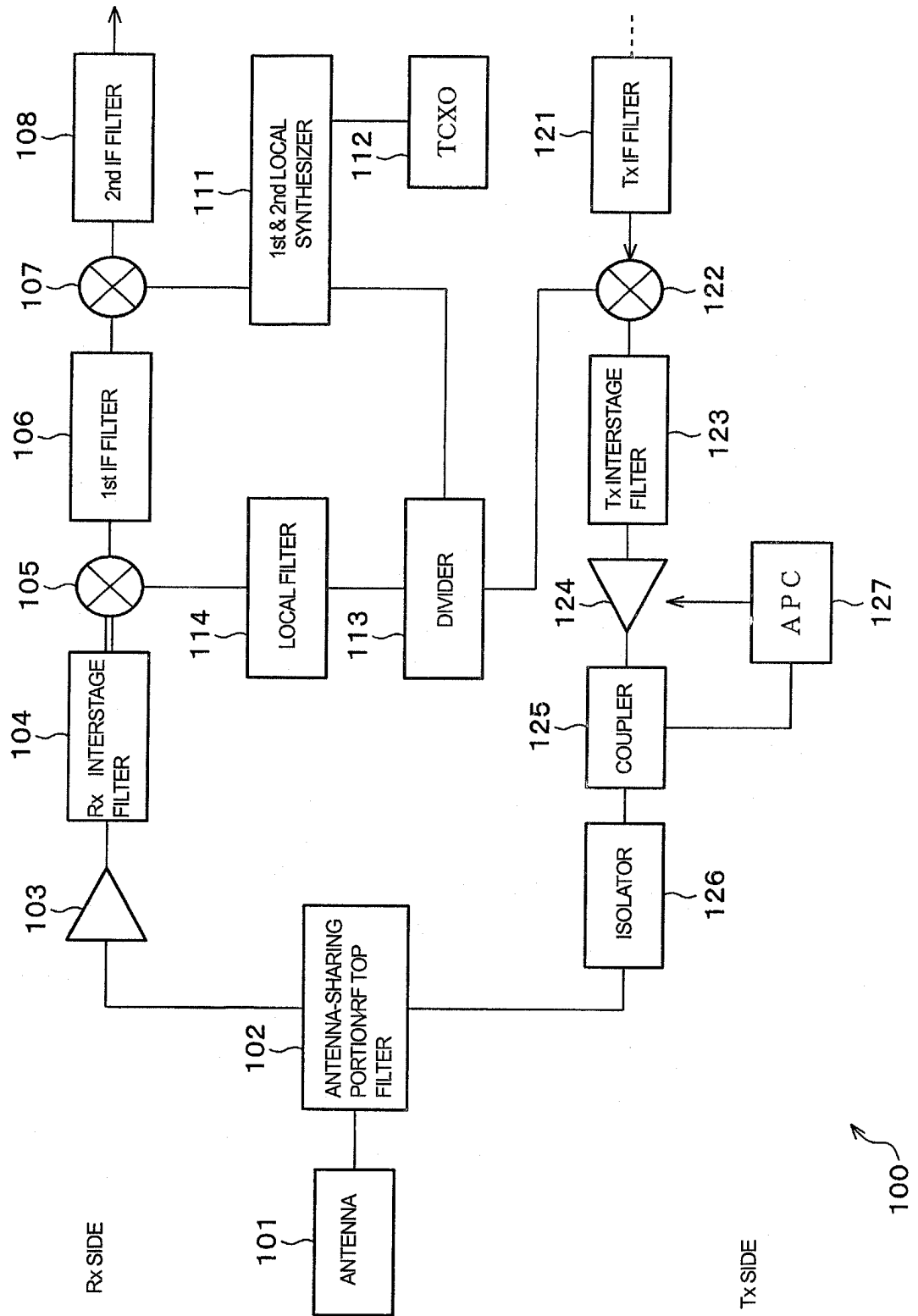


FIG. 14

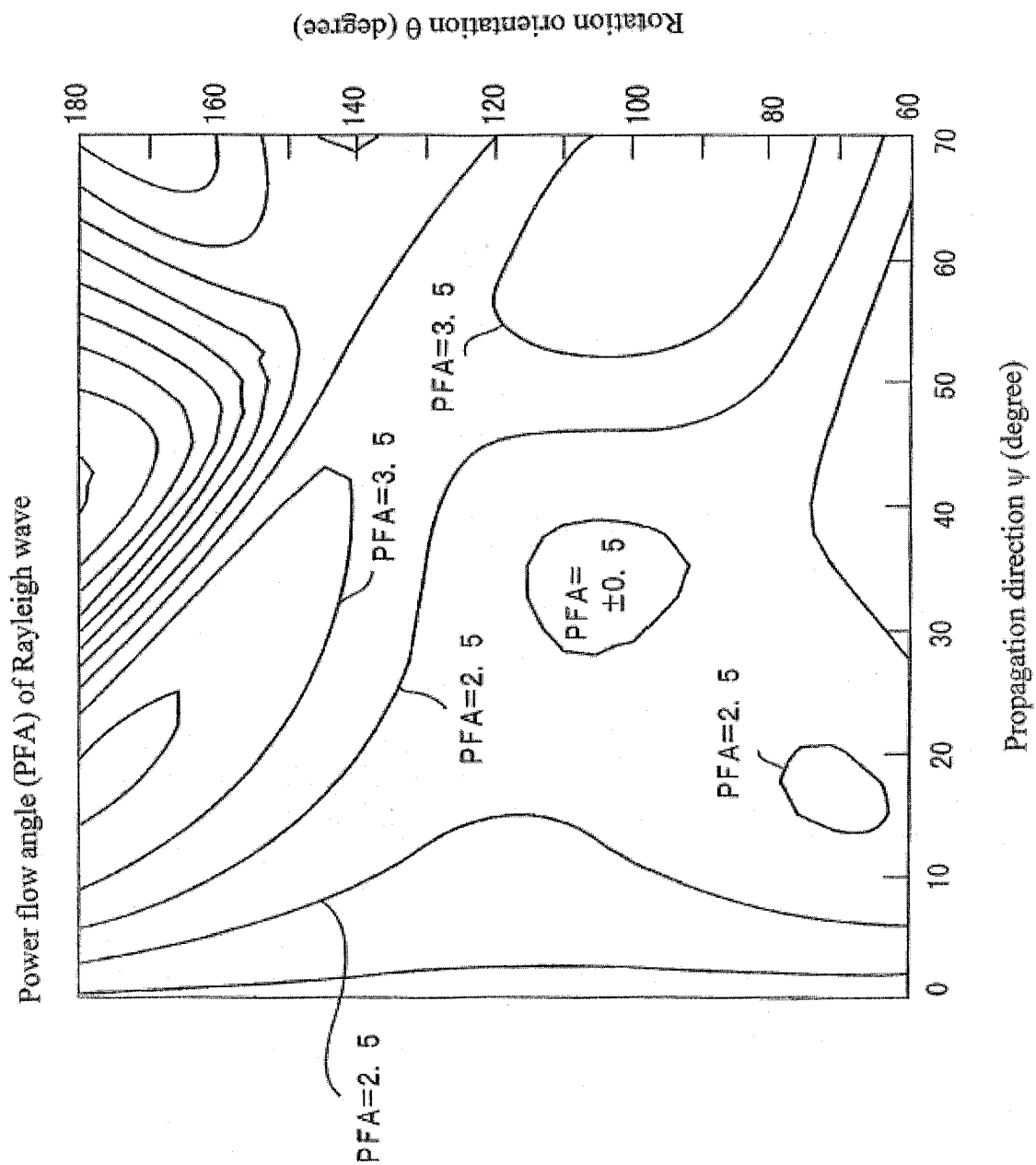


FIG. 15

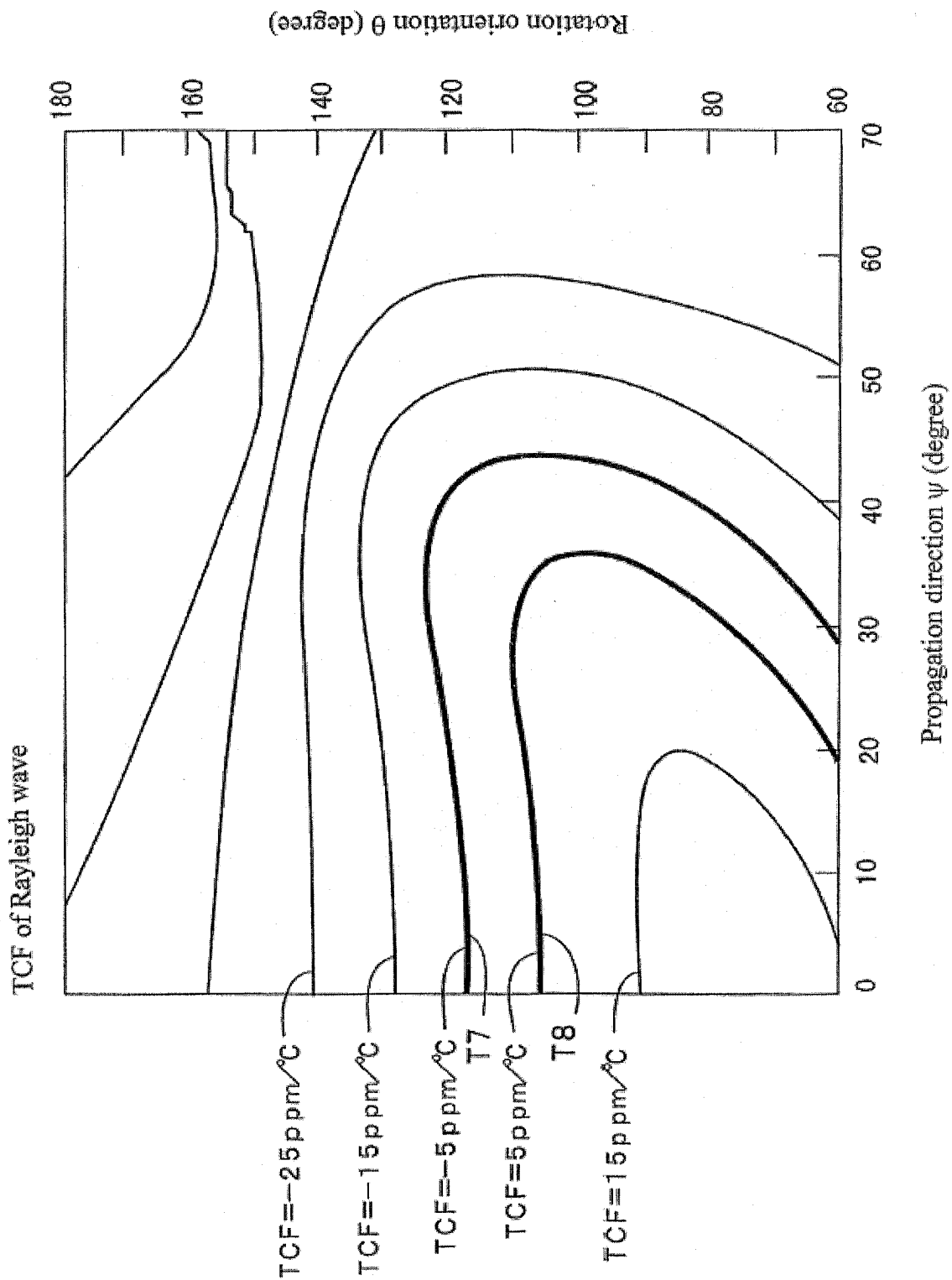
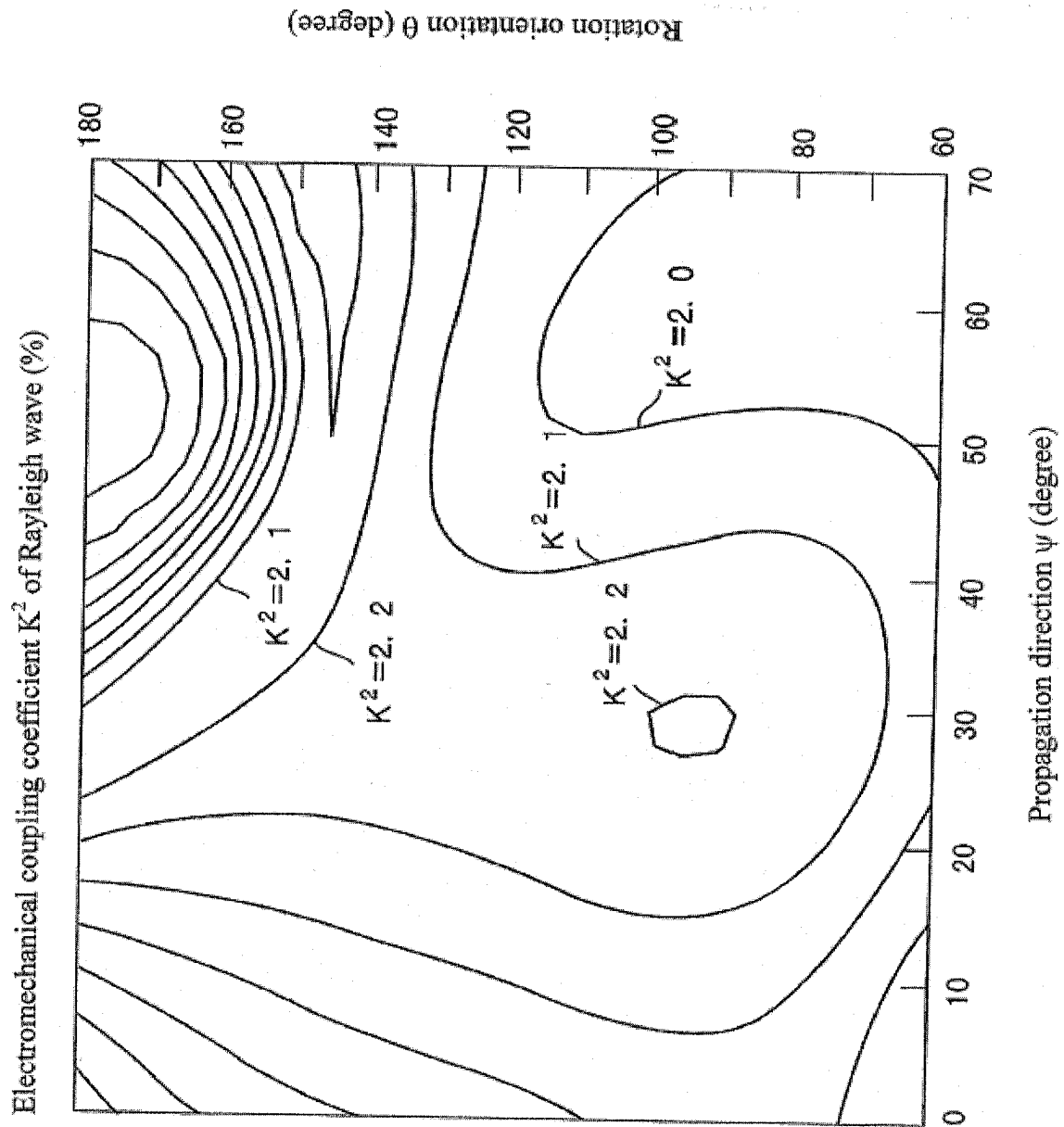


FIG. 16





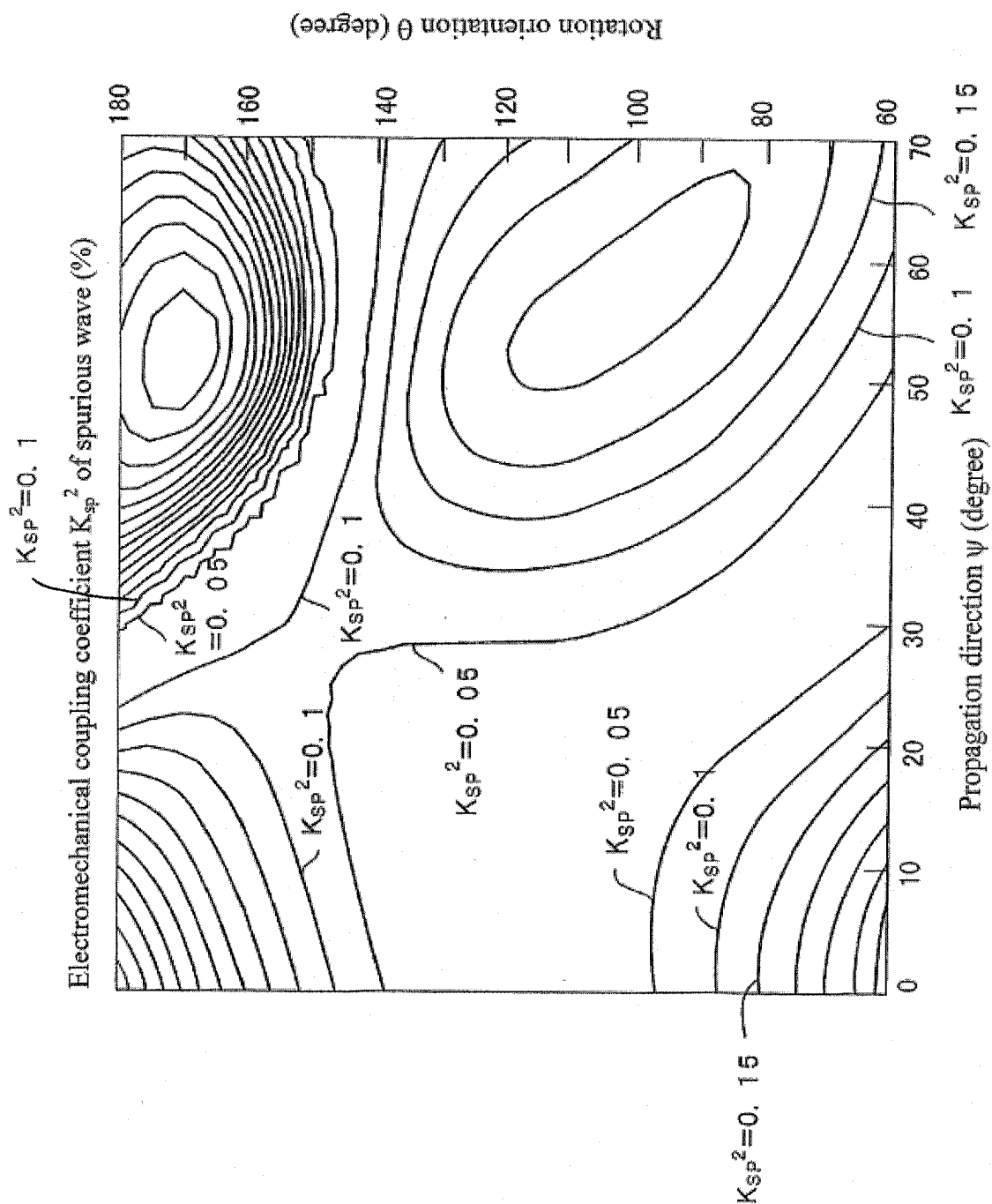


FIG. 18

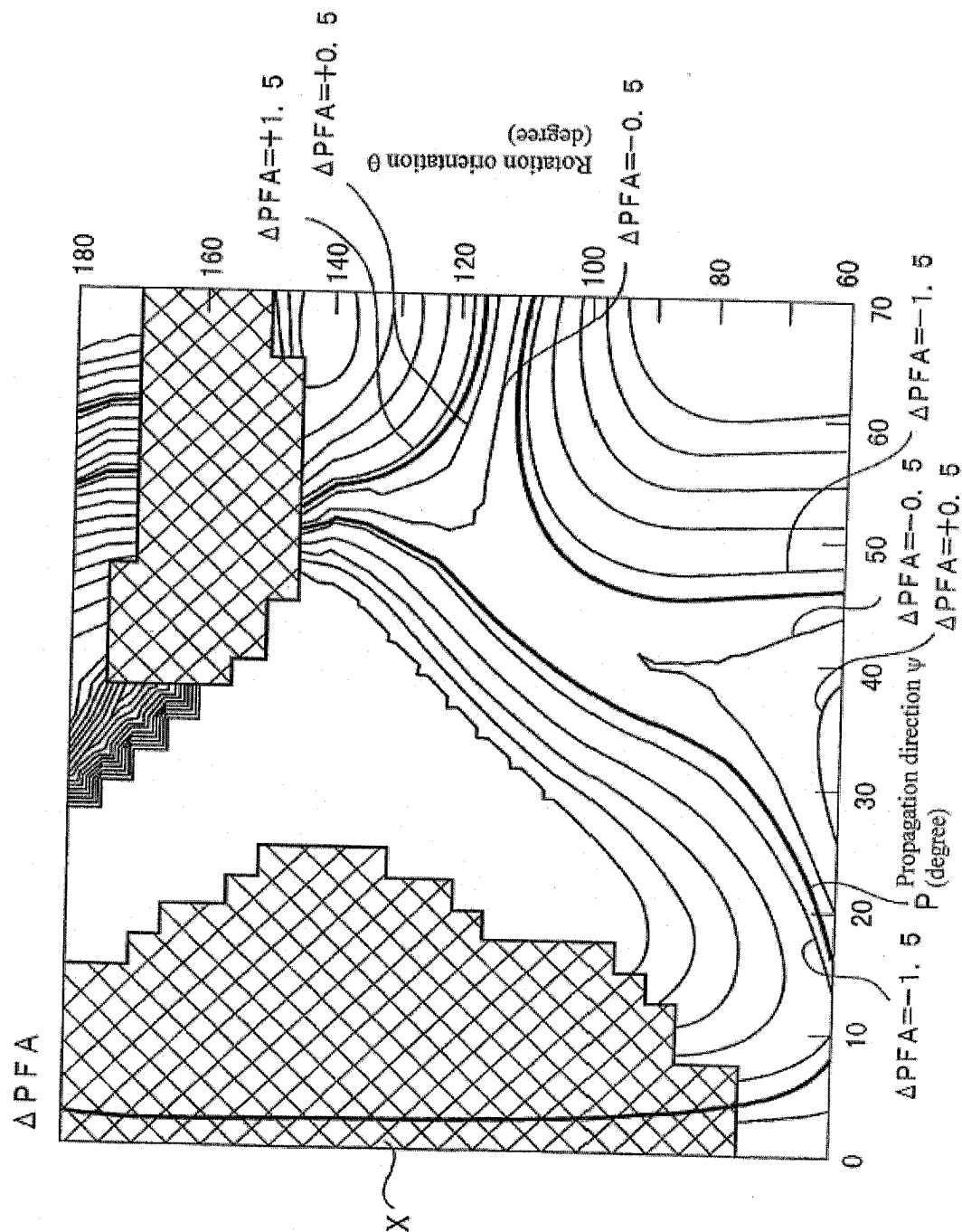


FIG. 19

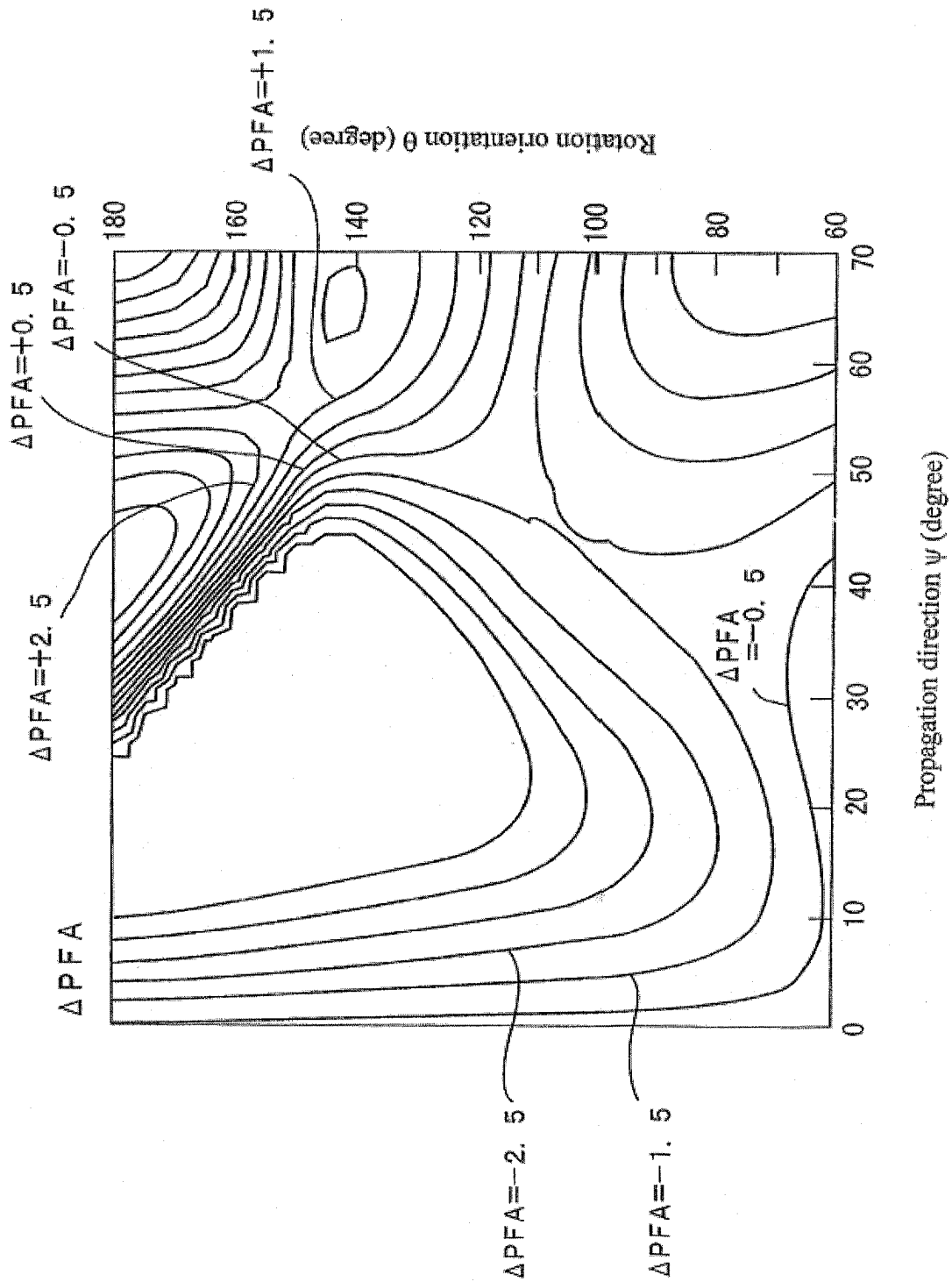


FIG. 20

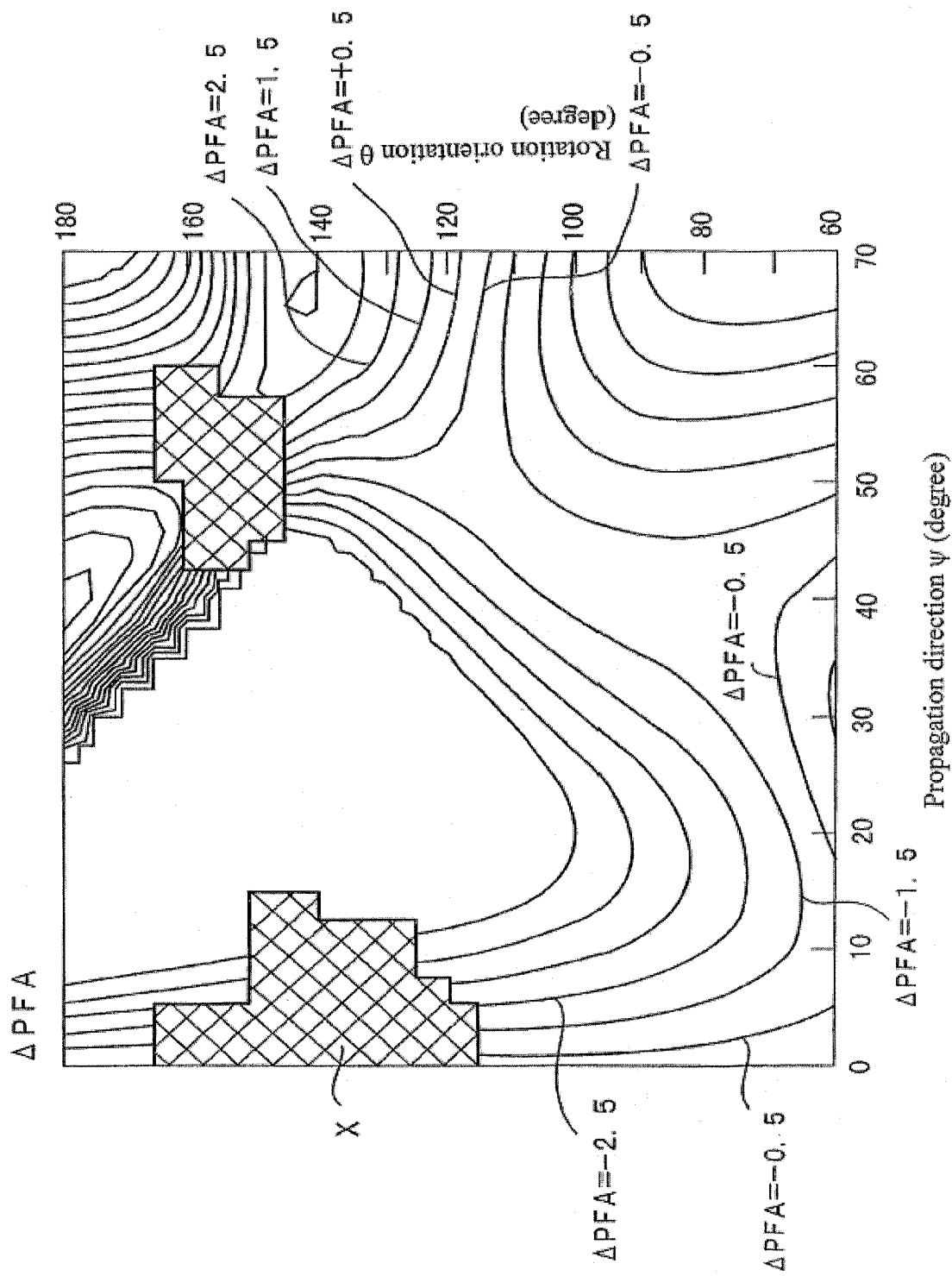


FIG. 21

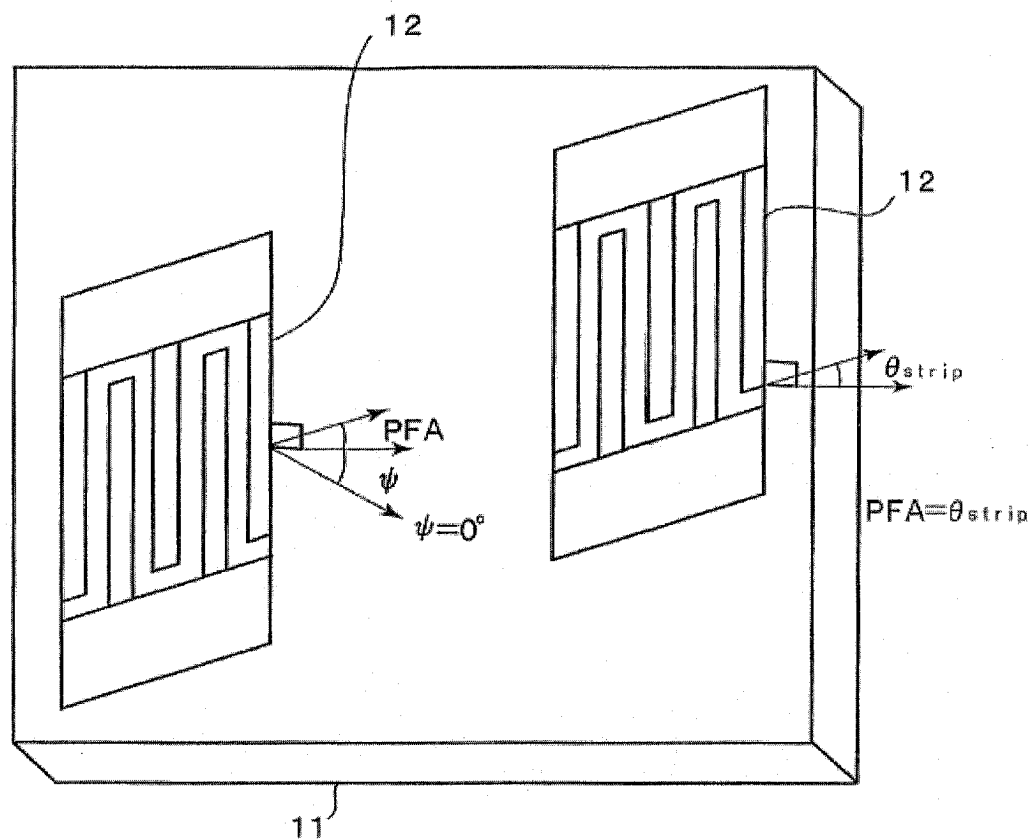


FIG. 22A  
PRIOR ART

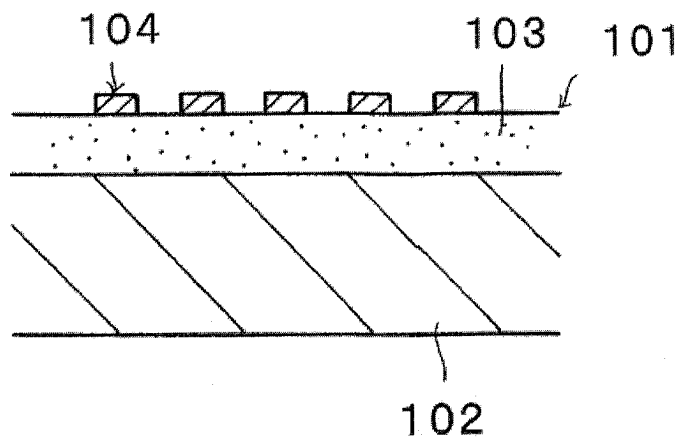


FIG. 22B  
PRIOR ART

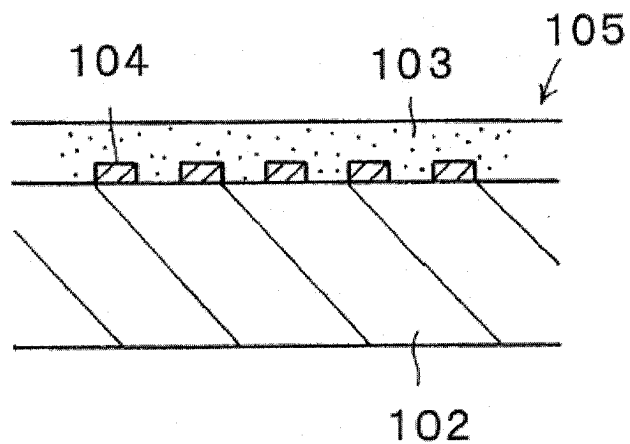


FIG. 23A  
PRIOR ART

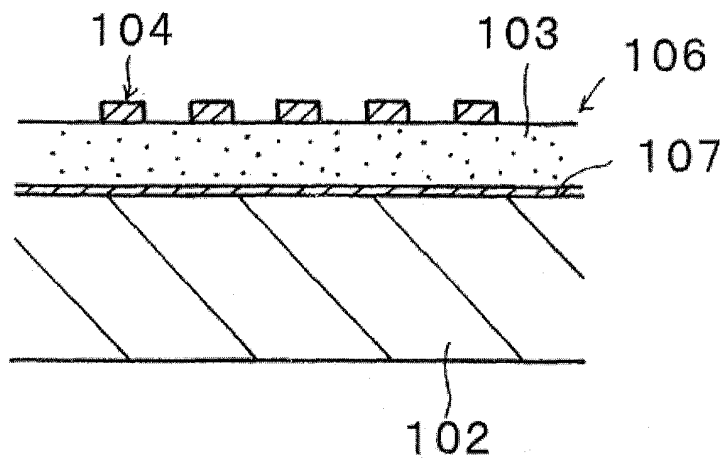


FIG. 23B  
PRIOR ART

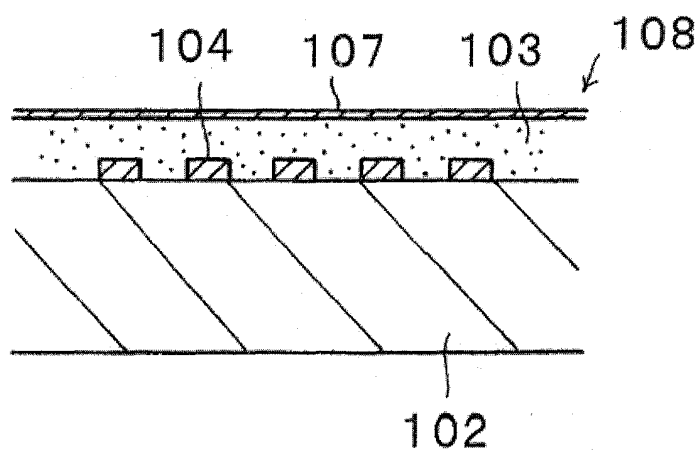
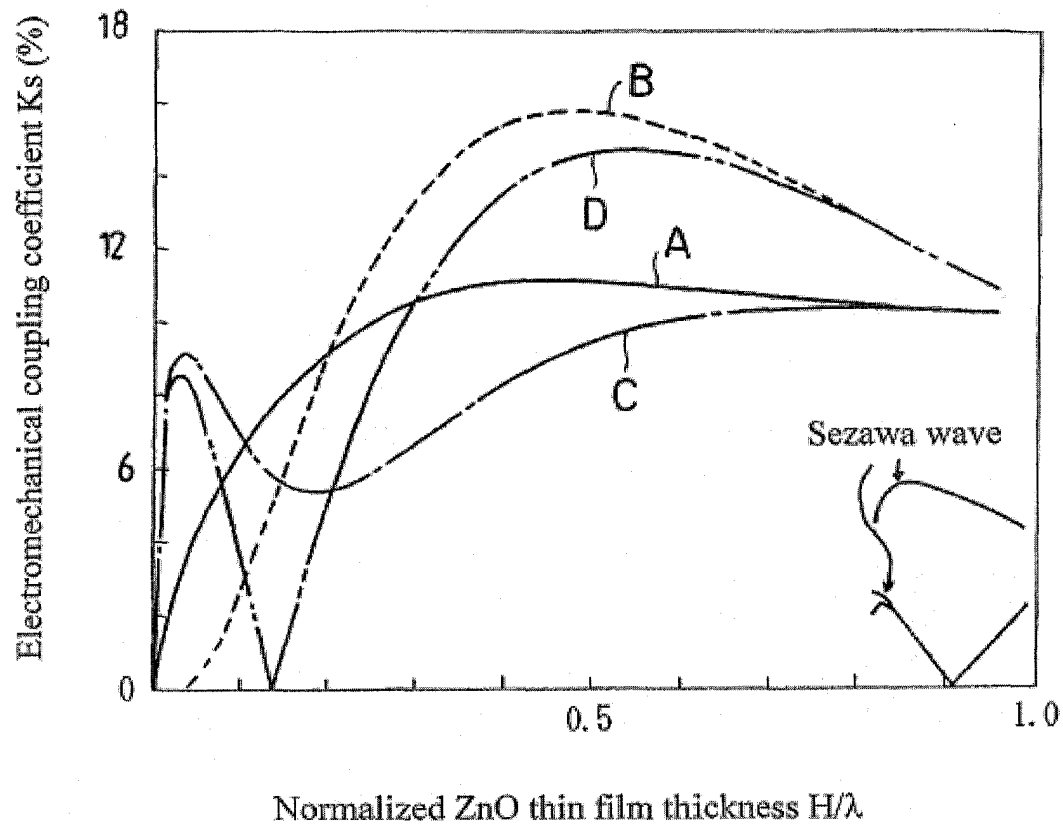
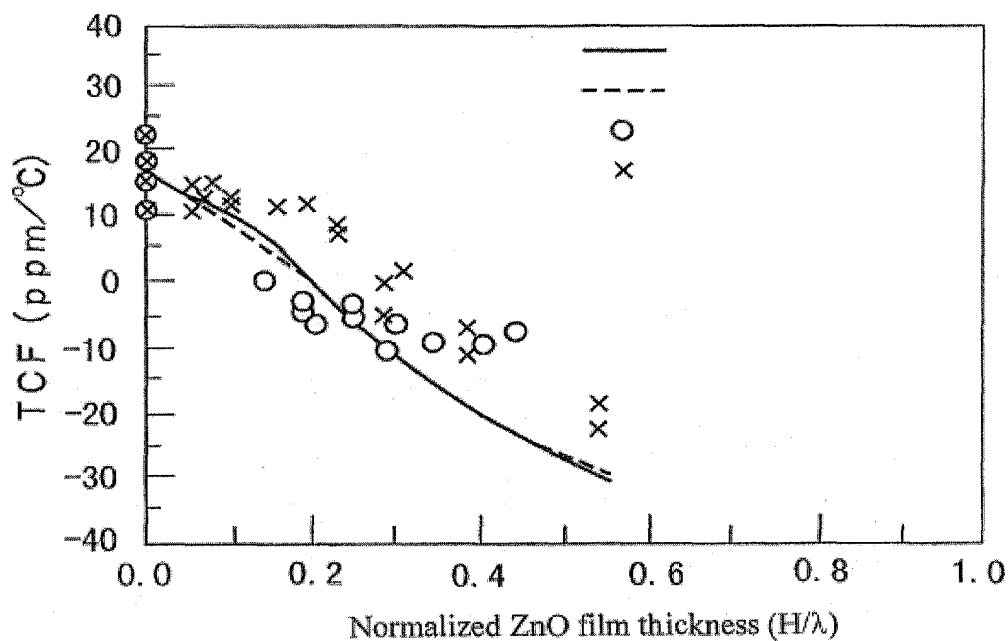


FIG. 24  
PRIOR ART





**FIG. 25A**  
**PRIOR ART**



**FIG. 25B**  
**PRIOR ART**

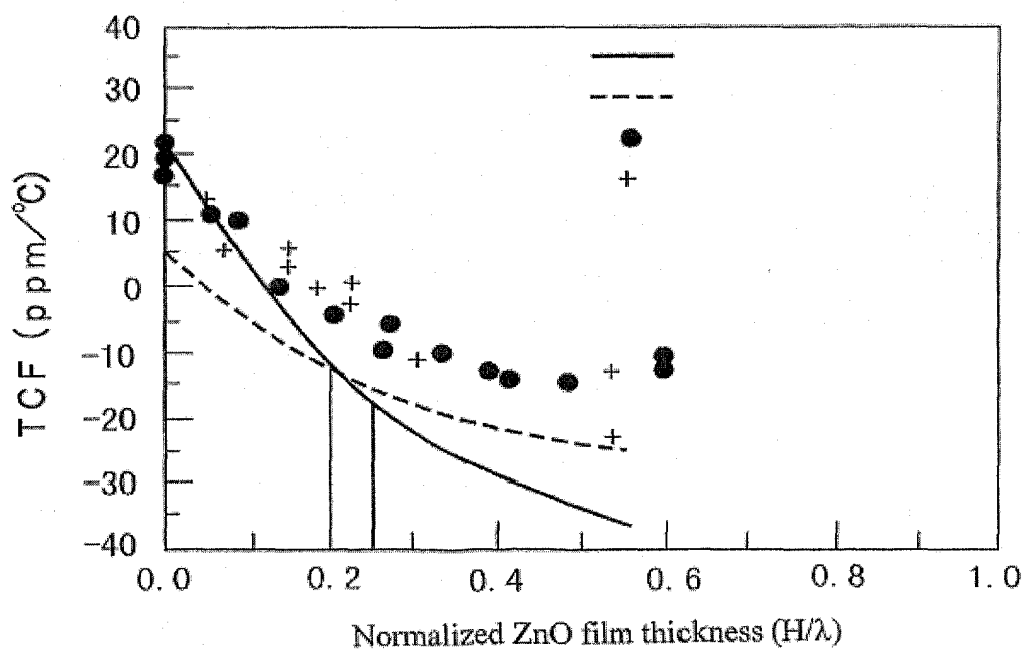


FIG. 26  
PRIOR ART

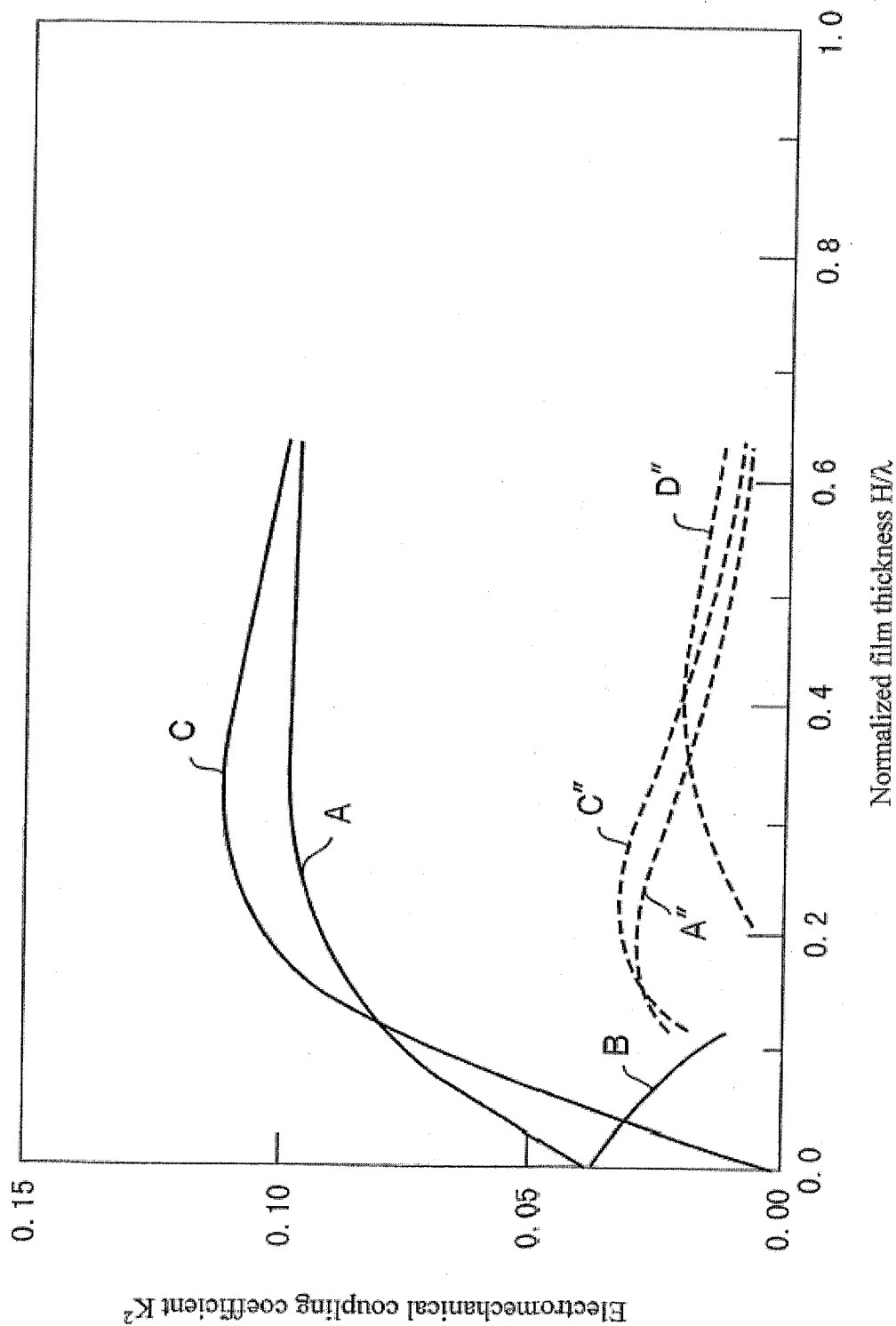


FIG. 27

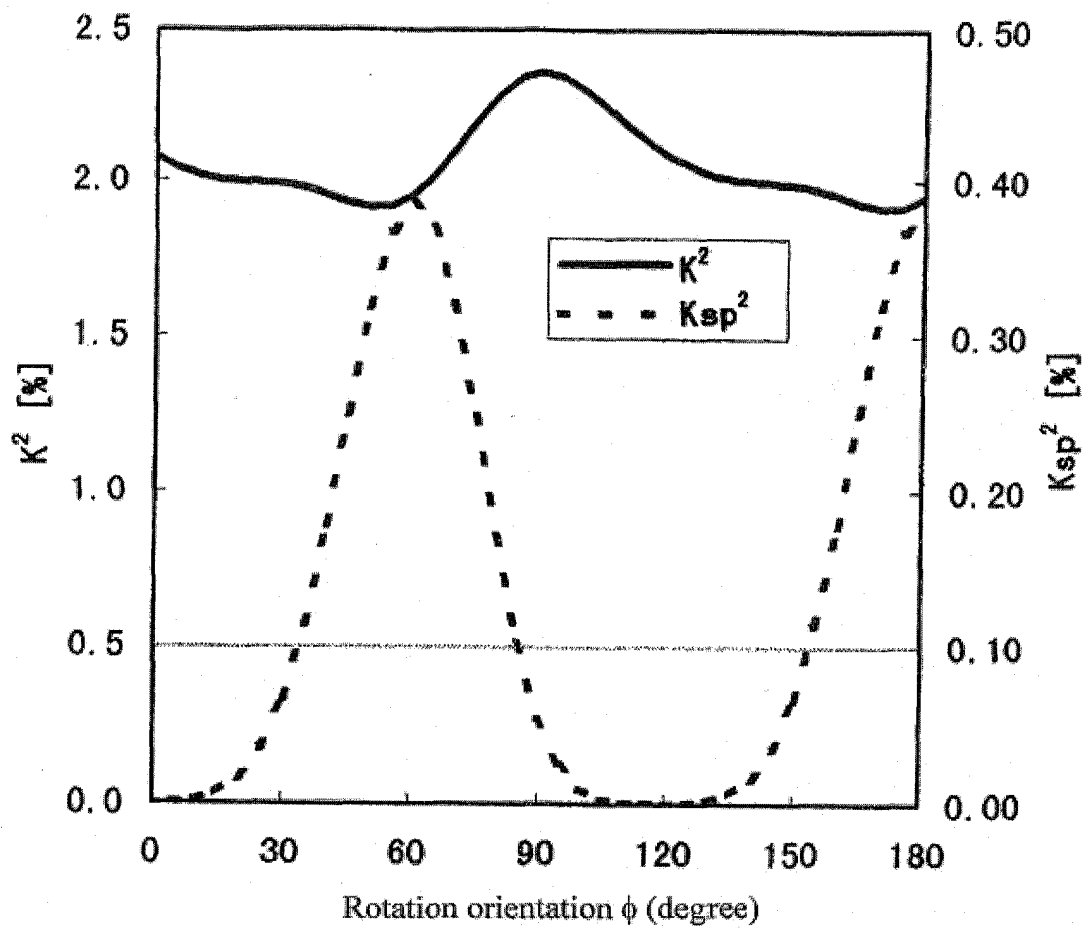




FIG. 28

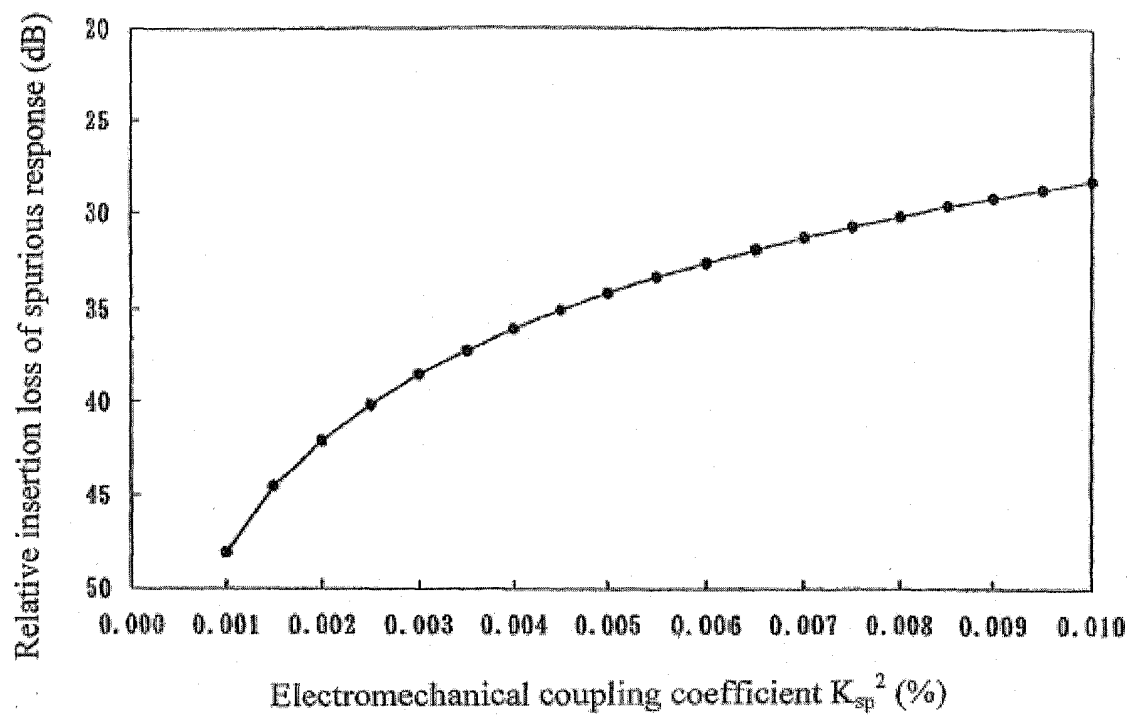


FIG. 29

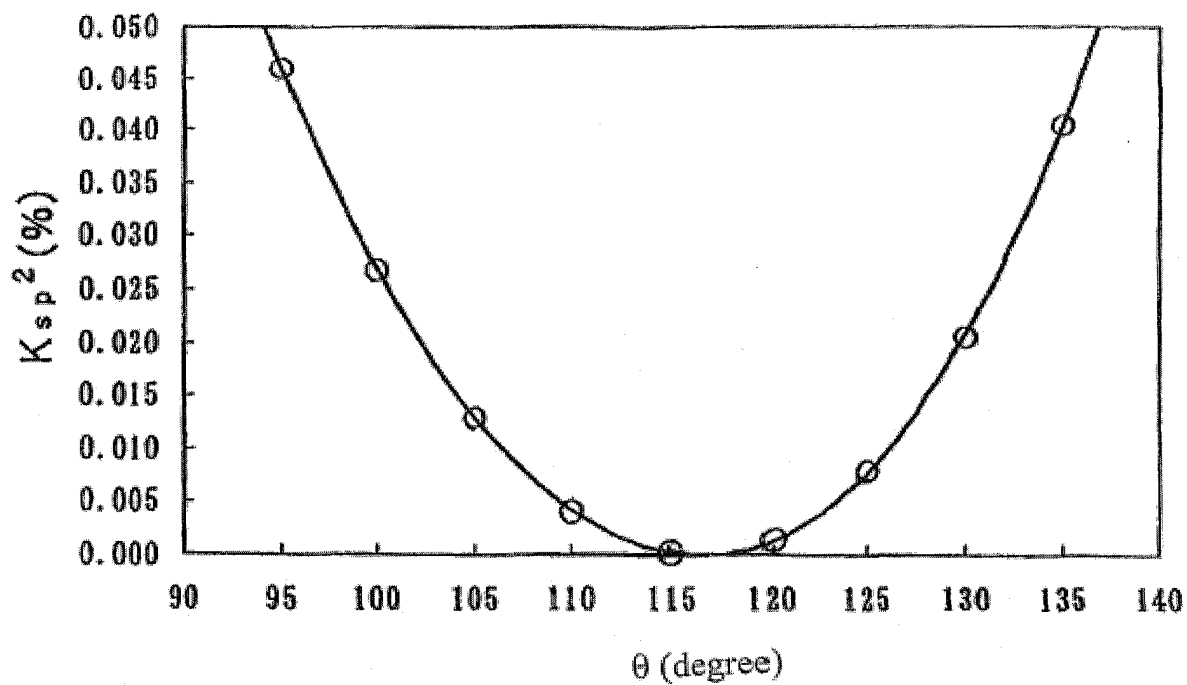


FIG. 30

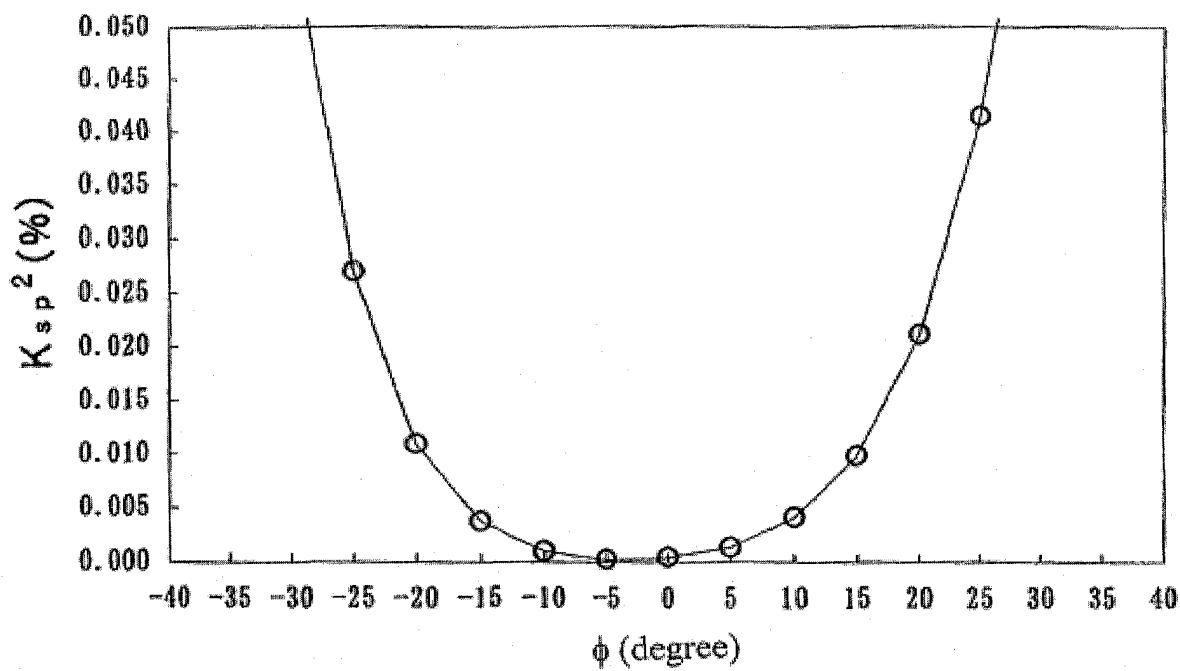


FIG. 31

